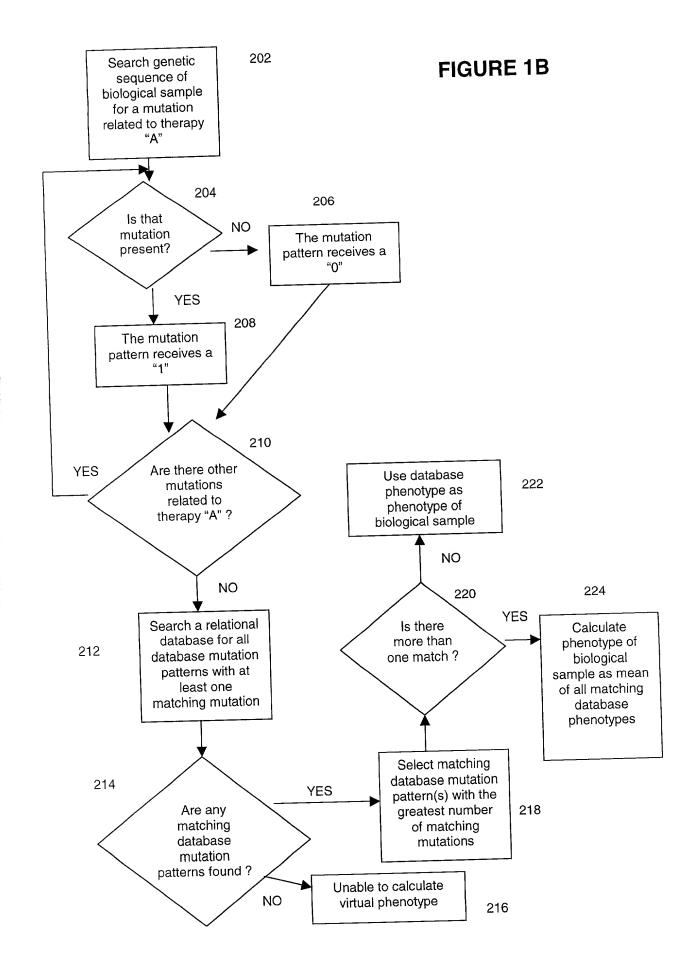


FIGURE 1A



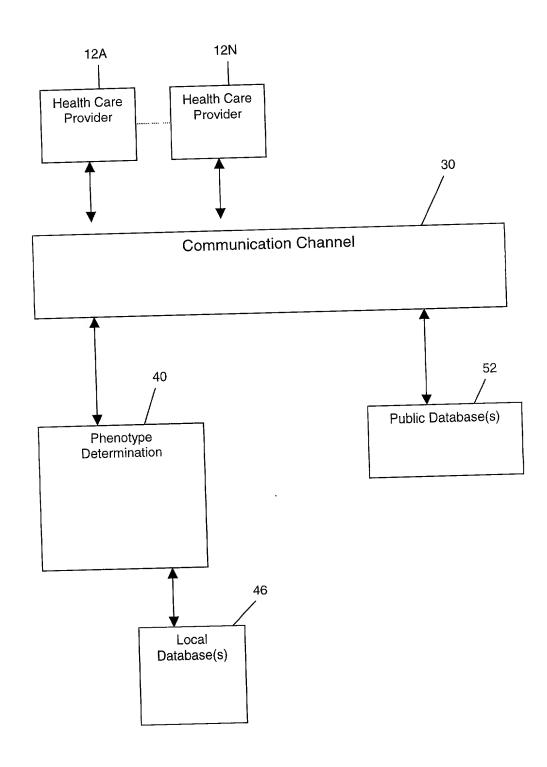
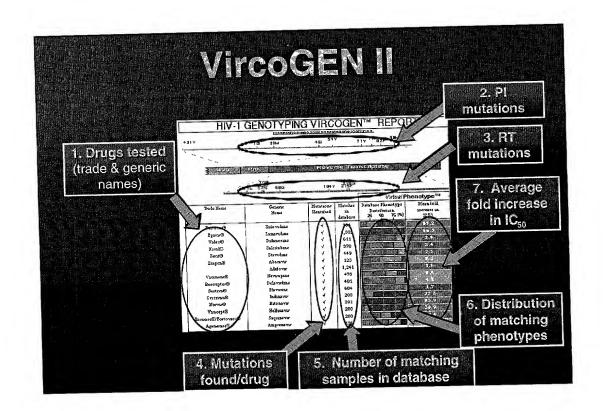
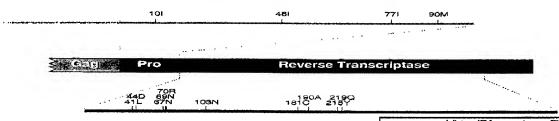


FIGURE 2

FIGURE 3



HIV-1 GENOTYPING VIRCOGENTM Resistance-Associated Mutations Identified:



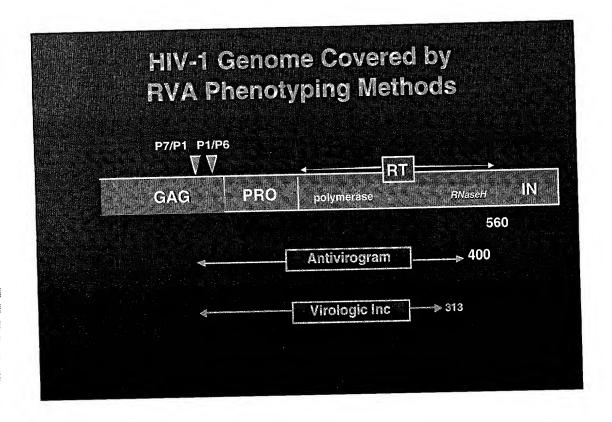
				<i>Virtual</i> Phenotype™	
Trade Name	Generic Name	Mutations Identified	Matches in database	Database Phenotype Distribution 25 50 75 (%)	Mean fold increase in IC50
Retrovir®	Zidovuđine	V	132		73.6
Epivir@	Lamivudine	٧	874	\$2.263	9.6
Videx@	Didanosine	1	585		1.8
Hivid®	Zalcitabine	٧	329		1.5
Zerit®	Stavudine	1	·549		3.7
Ziagen®	Abacavır	1	33		2.3
	Adefovir	1	1,010		2.2
Viramune®	Nevirapine	1	108		138.0
Rescriptor®	Delavirdine	1	102		162.0
Sustiva@	Bfavirenz	1	97	ß	267.3
Crixivan®	Indinavir	√	303		13.0
Norvir®	Ritonavir	√	301		15.2
Viracept®	Nelfinavir	1 1	302		29.5
Invirase®/Fortovase®	Saquinavir	√	301	and a second	7.9
A generase®	Amprenavir	√	215	1889	3.1

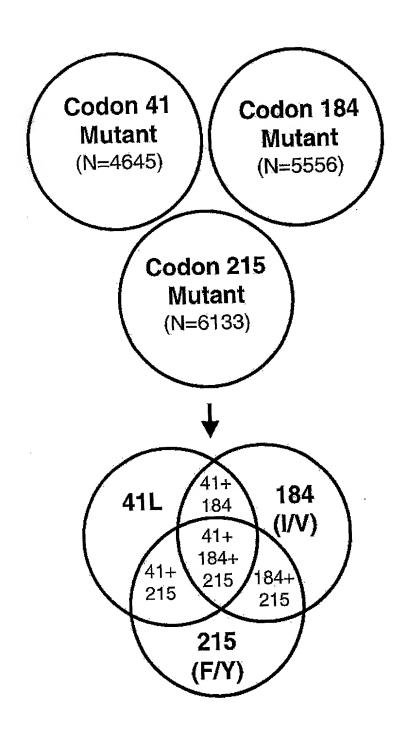
Virtual & Actual phenotypes

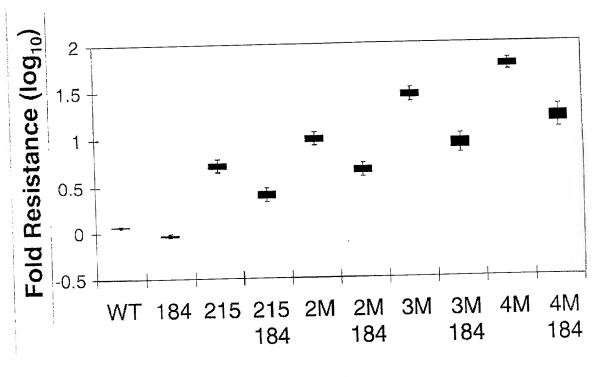
	Matches in Database	Database Pheno spread 25% 50% 75%	Median fold increase in IC50	Actual Phenotype
Indinavir	139		13x	17x
Ritonavir	139		115x	179x
Nelfinavir	139	Charles Shake Carrier II	17x	63x
Saquinavir	139	HOW HALL MADE	30x	32x
Amprenavir	139	THE STORY	5x	7.5x

Overall Concordance

- 10,000 Samples:
 - -Complete concordance: 90 94%
 - -Partial concordance: 6 9%
 - -Discordance: <1%







Genetic Cluster

